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- (71) Applicant (for all designated States except US): TCP INNOVATIONS LIMITED [GB/GB]; 9 St John's Street, Duxford, Cambridge CB2 4RA (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): GRAINGER, David, John [GB/GB]; TCP Innovations Limited, 9 St John's Street, Duxford, Cambridge CB2 4RA (GB).
- (74) Agent: ROQUES, Sarah, Elizabeth; J.A. Kemp & Co., 14 South Square, Gray's Inn, London WC1R 5JJ (GB).
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(57) Abstract: The present invention relates to methods of assaying the levels of proteins or antibodies in a test sample. In particular, the present invention relates to a method of determining the relative abundance of a plurality of proteins in a test sample compared to a reference sample, the method comprising: (a) providing a reference sample comprising a plurality of labelled proteins; (b) incubating a plurality of tagged antibodies capable of binding components of the reference sample with (i) a mixture of the labelled reference sample and the test sample and (ii) the reference sample alone, under conditions suitable for the binding of said antibodies to their targets; (c) comparing the amount of labelled protein bound to individual antibody tags in the presence and absence of the test sample.